

AMENDMENTS TO THE CLAIMS

This listing of the claims will replace all prior versions, and listings of claims in the application.

Listings of Claims:

1. (Currently Amended) An electronic device comprising a casing and a touch sensor capable of detecting a human body approaching or touching the casing, wherein the touch sensor comprises an electrode of a predetermined area provided in an inner portion of the casing at a distance from an outer surface of the casing and detecting means for detecting a change of capacitance from the electrode when the human body approaches or touches the outer surface of the casing, the electrode is divided into a plurality of electrode elements, wherein each electrode element being connected to the detecting means, and the electrode elements are operative to output on the basis of a change in a facing area relative to the total area of the electrode elements or a rate of change in the position of the facing area with time, wherein the facing area changes as the human body approaches or touches the outer surface of the casing, and a plurality of states of operation performed by an operator are detected on the basis of outputs from the electrode elements using outputs from the electrode elements.

2. (Previously Presented) The electronic device according to Claim 1, wherein the detecting means includes:
clock signal generating means for generating a clock signal;
delaying means for providing a delay in a rising edge of the clock signal according to the capacitance detected by the electrode when the human body approaches or touches the outer surface of the casing,

means for generating a signal depending on an amount of the delay, with the clock signal not passing through the delaying means defined as a reference; and

A/D converting means for A/D converting a signal depending on an amount of the change from analog to digital.

3. (Original) The electronic device according to Claim 2, wherein the detecting means detects a change of a facing area of the electrode and the human body.
4. (Previously Presented) The electronic device according to Claim 2, wherein the detecting means detects an interval that the human body faces the electrode.
5. (Previously Presented) The electronic device according to Claim 2, wherein a plurality of the electrodes are provided, each electrode including the delaying means and the means for generating a signal depending on the amount of the delay of a signal passing through the corresponding delaying means, with a common clock signal as a reference.
6. (Previously Presented) The electronic device according to Claim 1, wherein the electrodes are arranged along a shape of the outer surface so as to make each portion of the electrodes at equal distance from the outer surface of the casing.
7. (Previously Presented) The electronic device according to Claim 1, wherein the casing forms an appearance of a toy and the outer surface of the casing corresponding to a portion provided with the electrode is defined as a touch portion with the human body.
8. (Previously Presented) The electronic device according to Claim 3, wherein

the detecting means detects an interval that the human body faces the electrode.

9. (Previously Presented) The electronic device according to Claim 3, wherein a plurality of the electrodes are provided, each electrode including the delaying means and the means for generating a signal depending on the amount of the delay of a signal passing through the corresponding delaying means, with a common clock signal as a reference.

10. (Previously Presented) The electronic device according to Claim 4, wherein a plurality of the electrodes are provided, each electrode including the delaying means and the means for generating a signal depending on the amount of the delay of a signal passing through the corresponding delaying means, with a common clock signal as a reference.

11. (Previously Presented) The electronic device according to Claim 8, wherein a plurality of the electrodes are provided, each electrode including the delaying means and the means for generating a signal depending on the amount of the delay of a signal passing through the corresponding delaying means, with a common clock signal as a reference.

12. (Previously Presented) The electronic device according to Claim 2, the electrodes are arranged along a shape of the outer surface so as to make each portion of the electrodes at equal distance from the outer surface of the casing.

13. (Previously Presented) The electronic device according to Claim 3,

the electrodes are arranged along a shape of the outer surface so as to make each portion of the electrodes at equal distance from the outer surface of the casing.

14. (Previously Presented) The electronic device according to Claim 4, the electrodes are arranged along a shape of the outer surface so as to make each portion of the electrodes at equal distance from the outer surface of the casing.

15. (Previously Presented) The electronic device according to Claim 5, the electrodes are arranged along a shape of the outer surface so as to make each portion of the electrodes at equal distance from the outer surface of the casing.

16. (Previously Presented) The electronic device according to Claim 8, the electrodes are arranged along a shape of the outer surface so as to make each portion of the electrodes at equal distance from the outer surface of the casing.

17. (Previously Presented) The electronic device according to Claim 9, wherein the electrodes are arranged along a shape of the outer surface so as to make each portion of the electrodes at equal distance from the outer surface of the casing.

18. (Previously Presented) The electronic device according to Claim 10, wherein

the electrodes are arranged along a shape of the outer surface so as to make each portion of the electrodes at equal distance from the outer surface of the casing.

19. (Previously Presented) The electronic device according to Claim 11, wherein

the electrodes are arranged along a shape of the outer surface so as to make each portion of the electrodes at equal distance from the outer surface of the casing.

20. (Previously Presented) The electronic device according to Claim 2, wherein the casing forms an appearance of a toy and the outer surface of the casing corresponding to a portion provided with the electrode is defined as a touch portion with the human body.

21. (Previously Presented) The electronic device according to Claim 3, wherein the casing forms an appearance of a toy and the outer surface of the casing corresponding to a portion provided with the electrode is defined as a touch portion with the human body.

22. (Previously Presented) The electronic device according to Claim 4, wherein the casing forms an appearance of a toy and the outer surface of the casing corresponding to a portion provided with the electrode is defined as a touch portion with the human body.

23. (Previously Presented) The electronic device according to Claim 5,

wherein the casing forms an appearance of a toy and the outer surface of the casing corresponding to a portion provided with the electrode is defined as a touch portion with the human body.

24. (Previously Presented) The electronic device according to Claim 6,

wherein the casing forms an appearance of a toy and the outer surface of the casing corresponding to a portion provided with the electrode is defined as a touch portion with the human body.

25. (Previously Presented) The electronic device according to Claim 8,

wherein the casing forms an appearance of a toy and the outer surface of the casing corresponding to a portion provided with the electrode is defined as a touch portion with the human body.

26. (Previously Presented) The electronic device according to Claim 9,

wherein the casing forms an appearance of a toy and the outer surface of the casing corresponding to a portion provided with the electrode is defined as a touch portion with the human body.

27. (Previously Presented) The electronic device according to Claim 10,

wherein the casing forms an appearance of a toy and the outer surface of the casing corresponding to a portion provided with the electrode is defined as a touch portion with the human body.

28. (Previously Presented) The electronic device according to Claim 11,

-wherein the casing forms an appearance of a toy and the outer surface of the casing corresponding to a portion provided with the electrode is defined as a touch portion with the human body.

29. (Previously Presented) The electronic device according to Claim 12,

wherein the casing forms an appearance of a toy and the outer surface of the casing corresponding to a portion provided with the electrode is defined as a touch portion with the human body.

30. (Previously Presented) The electronic device according to Claim 13,

wherein the casing forms an appearance of a toy and the outer surface of the casing corresponding to a portion provided with the electrode is defined as a touch portion with the human body.

31. (Previously Presented) The electronic device according to Claim 14,

wherein the casing forms an appearance of a toy and the outer surface of the casing corresponding to a portion provided with the electrode is defined as a touch portion with the human body.

32. (Previously Presented) The electronic device according to Claim 15,

wherein the casing forms an appearance of a toy and the outer surface of the casing corresponding to a portion provided with the electrode is defined as a touch portion with the human body.

33. (Previously Presented) The electronic device according to Claim 16,

wherein the casing forms an appearance of a toy and the outer surface of the casing corresponding to a portion provided with the electrode is defined as a touch portion with the human body.

34. (Previously Presented) The electronic device according to Claim 17,

wherein the casing forms an appearance of a toy and the outer surface of the casing corresponding to a portion provided with the electrode is defined as a touch portion with the human body.

35. (Previously Presented) The electronic device according to Claim 18,

wherein the casing forms an appearance of a toy and the outer surface of the casing corresponding to a portion provided with the electrode is defined as a touch portion with the human body.

36. (Previously Presented) The electronic device according to Claim 19,

wherein the casing forms an appearance of a toy and the outer surface of the casing corresponding to a portion provided with the electrode is defined as a touch portion with the human body.